

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/694,945
				Filing Date	October 29, 2003
				First Named Inventor	Vasudevan Parthasarathy
				Art Unit	2611
				Examiner Name	Tran, Khai
Sheet	1	of	2	Attorney Docket Number	1875.5430000

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/K1/	US1	4,627,070	12-02-1986	Champlin <i>et al.</i>	
	US2	4,833,605	05-23-1989	Terada <i>et al.</i>	
	US3	4,833,695	05-23-1989	Greub	
	US4	4,967,201	10-30-1990	Rich, III	
	US5	5,726,991	03-10-1998	Chen <i>et al.</i>	
	US6	5,793,990	08-11-1998	Jirgal <i>et al.</i>	
	US7	5,933,021	08-03-1999	Mohd	
	US8	6,081,570	06-27-2000	Ghuman <i>et al.</i>	
	US9	6,137,734	12-24-2000	Schoner <i>et al.</i>	
	US10	6,140,956	10-31-2000	Hillman <i>et al.</i>	
	US11	6,259,693 B1	07-10-2001	Ganmukhi	
	US12	6,317,804 B1	11-13-2001	Levy <i>et al.</i>	
	US13	6,438,717 B1	08-20-2002	Butler <i>et al.</i>	
	US14	6,483,849 B1	11-19-2002	Bray <i>et al.</i>	
	US15	7,032,139 B1	04-18-2006	Iryami <i>et al.</i>	
	US16	7,035,228 B2	04-25-2006	Baumer	
	US17	2001/0012288 A1	08-09-2001	Yu	
	US18	2001/0015664 A1	08-23-2001	Taniguchi	
	US19	2001/0021953 A1	09-13-2001	Nakashima	
/K1/	US20	2001/0017595 A1	08-30-2001	Cliff <i>et al.</i>	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
	FP1				
	FP2				
	FP3				
	FP4				
	FP5				
	FP6				
	FP7				
	FP8				
	FP9				

Examiner Signature	/Khai Tran/	Date Considered	04/17/2008
--------------------	-------------	-----------------	------------

DOC#784492_1.DOC

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/694,945
				Filing Date	October 29, 2003
				First Named Inventor	Vasudevan Parthasarathy
				Art Unit	2611
				Examiner Name	Tran, Khai
Sheet	2	of	2	Attorney Docket Number	1875.5430000

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/KT/	US21	2002/0054569 A1	05-09-2002	Morkawa	
	US22	2003/0009307 A1	01-09-2003	Mejia et al.	
	US23	2003/0048781 A1	03-13-2003	Peirson	
	US24	2003/0120791 A1	06-26-2003	Weber et al.	
	US25	2003/0172332 A1	09-11-2003	Rearick et al.	
	US26	2004/0083077 A1	04-29-2004	Baumer et al.	
	US27	2004/0088443 A1	05-06-2004	Tran et al.	
	US28	2004/0141497 A1	07-22-2004	Amirichimeh et al.	
	US29	2004/0141531 A1	07-22-2004	Amirichimeh et al.	
	US30	2004/0117698 A1	06-17-2004	Tran et al.	
/KT/	US31	2005/0190690 A1	09-01-2005	Tran	
	US32	2006/0250985 A1	11-09-2006	Baumer	
	US33				
	US34				
	US35				
	US36				
	US37				
	US38				
	US39				
	US40				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	FP10					
	FP11					
	FP12					
	FP13					
	FP14					
	FP15					
	FP16					
	FP17					
	FP18					

Examiner Signature	/Khai Tran/	Date Considered	04/17/2008
--------------------	-------------	-----------------	------------

DOC#784492_1.DOC

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/694,945
				Filing Date	October 29, 2003
				First Named Inventor	Vasudevan Parthasarathy
				Art Unit	2611
				Examiner Name	Tran, Khai
Sheet	1	of	3	Attorney Docket Number	1875.5430000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	NPL1	Cisco Systems, Hiroshi Suzuki: Taking Ethernet Beyond the LAN, http://newsroom.cisco.com/dlls/innovators/optical/hiroshi_suzuki_profile.html	
	NPL2	Cisco Systems, Q&A: Hiroshi Suzuki on Extending Ethernet Beyond the LAN, http://newsroom.cisco.com/dlls/innovators/optical/hiroshi_suzuki_qa.html	
	NPL3	Cisco Systems, Innovators Profiles, http://newsroom.cisco.com/dlls/innovators/inn_profiles.html	
	NPL4	Cisco Systems, Optical, http://newsroom.cisco.com/dlls/innovators/optical/	
	NPL5	Cisco Systems, Cisco Systems and Avaya Interactive Launch Internet Powered Property (IP2), http://newsroom.cisco.com/dlls/global/asiapac/news/2000/pr_07-25.html	
/KT/	NPL6	"Broadcom Announces the First 0.13-micron CMOS Multi-Rate Gigabit Octal Serializers/Deserializers" [online], Broadcom Press Release, October 29, 2002 [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/cgi-bin/pr/prps.cgi?pr_id=PR021029 > (5 pages).	
	NPL7	BCM8040 8-Channel Multi-rate 1.0-3.2-GBPS Retimer Switch [online], Broadcom Products Site Guide [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8040.html > (2 pages).	
/KT/	NPL8	8-Channel Multi-Rate CMOS Retimer with Full Redundancy [online], BCM8040 Product Brief, Broadcom Corporation (2002) [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8040.html > (2 pages).	
	NPL9	BCM8020 8-Channel Multi-rate 1.0-3.2-GBPS Transceiver [online], Broadcom Products Site Guide [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8020.html > (2 pages).	
/KT/	NPL10	8-Channel Multi-Rate CMOS Transceiver with Full Redundancy [online], BCM8020 Product Brief, Broadcom Corporation (2002) [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8020.html > (2 pages).	

Examiner Signature	/Khai Tran/	Date Considered	04/17/2008
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DOC#784491.1.DOC

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/694,945
				Filing Date	October 29, 2003
				First Named Inventor	Vasudevan Parthasarathy
				Art Unit	2611
				Examiner Name	Tran, Khai
Sheet	2	of	3	Attorney Docket Number	1875.5430000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL11	BCM8021 4-Channel Multi-rate 1.0-3.2-GBPS Transceiver with High-Speed Redundancy [online], Broadcom Products Site Guide [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8021.html> (2 pages).	
/KT/	NPL12	4-Channel Multirate 1.0-3.2-GBPS Transceiver with High-Speed Redundancy [online], BCM8021 Product Brief, Broadcom Corporation (2002) [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/products/8021.html> (2 pages).	
/KT/	NPL13	Broadcom Announces the Industry's First 0.13-micron CMOS Advanced Transceiver Solution with Signal Conditioning for Low-Cost 10-Gigabit Over Copper Links [online], Broadcom Press Release, April 29, 2003 [retrieved on 2003-07-16]. Retrieved from the Internet: <URL: http://www.broadcom.com/cgi-bin/pr/prps.cgi?pr_id=PR030429A> (4 pages).	
	NPL14	Alaska Quad-Port Gigabit Ethernet Over Copper Transceivers, from	
		http://www.marvell.com/products/transceivers/quadport/..., 1 page, printed May 8, 2007.	
	NPL15	Alaska X10 Gigabit Ethernet Alaska Gigabit Ethernet Fast Ethernet Physical Layer (PHY) Transceiver Families Provide a Full Range of Ethernet Transceiver Solutions for the Broadband Communications Industry, from	
		http://www.nuhorizons.com/FeaturedProducts/Volume3/Marvell/phy_transceiver.asp, 4 pages, Copyright 2007, printed May 8, 2007.	
/KT/	NPL16	Industry Breakthrough: Marvell Announces the First Quad-Port Transceiver to Support Both Copper and Fiber-Optic Gigabit Ethernet Interfaces, from Business Wire at www.encyclopedia.com/printable/aspx?id=1G1:68912211, 4 pages, January 9, 2001, printed May 8, 2007.	
/KT/	NPL17	David Maliniak (ed.), Bel's integrated connector modules support Marvell's Alaska quad Gigabit Ethernet transceiver, from http://www.electronicweb.com/Content/news/..., 1 page, December 14, 2000, printed May 8, 2007.	
/KT/	NPL18	Marvell Gets Small, from http://www.lightreading.com/document.asp?doc_id=12004&print=true, 1 page, February 19, 2002, printed May 8, 2007.	
/KT/	NPL19	Marvell Introduces the Industry's Smallest Quad-Port Gigabit Transceiver Device, Enabling Ultra High Port Density Enterprise Switching Systems, from http://www.marvell.com/press/pressNewsDisplay.do?releaseID=41, 3 pages, February 19, 2002, printed May 8, 2007.	
/KT/	NPL20	Q&A: Hiroshi Suzuki on Extending Ethernet Beyond the LAN, from http://newsroom.cisco.com/dlls/innovators/optical/hiroshi_suzuki_qa.html, 3 pages, Copyright 1992-2003, printed July 29, 2003.	

Examiner Signature	/Khai Tran/	Date Considered	04/17/2008
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DOC#784491_1.DOC

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/694,945
				Filing Date	October 29, 2003
				First Named Inventor	Vasudevan Parthasarathy
				Art Unit	2611
				Examiner Name	Tran, Khai
Sheet	3	of	3	Attorney Docket Number	1875.5430000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
/KT/	NPL21	IEEE Std. 802.3, Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications, Section Two, pp. 9-55, Copyright 2002.	
/KT/	NPL22	IEEE Std. 802.3, Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) access method and physical layer specifications, Section Four, pp. 9-152, Copyright 2005.	
/KT/	NPL23	Ed Turner, David Law, Sept. 17-19, 2001, "IEEE P802.3ae MDC/MDIO", http://www.ieee802.org/3/efm/public/sep01/turner_1_0901.pdf (copy attached).	
	NPL24		
	NPL25		
	NPL26		
	NPL27		
	NPL28		
	NPL29		
	NPL30		

Examiner Signature	/Khai Tran/	Date Considered	04/17/2008
--------------------	-------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

DOC#784491_1.DOC

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.